	Application No.	Applicant(s)
Notice of Allowability	10/624,726	PETCULESCU ET AL.
	Examiner	Art Unit	
	Cam Y T. Truong	2162	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to <u>6/1/2007</u>.

2. ☒ The allowed claim(s) is/are <u>15,17-19,26, 28-29,32 and 33</u>.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None   of the:

        1. ☐ Certified copies of the priority documents have been received.

        2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

        3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of

        Paper No./Mail Date _____ .

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>7/23/2003</u>

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____ .

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

DETAILED ACTION

1.   Claims 1, 3-5, 10, 12-15, and 17-38 are pending in this Office Action.

EXAMINER'S AMENDMENT

2.   An examiner's amendment to the record appears below. Should the

changes and/or additions be unacceptable to applicant, an amendment may be

filed as provided by 37 CFR 1.312. To ensure consideration of such an

amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone

interview with Attorney Greg S. Plichta on 10/9/2007.

In the specification:

Please replace the first paragraph in page 1 from line 5 to line 10 by the

below paragraph.

This application is a CON of 09/419427 filed on 10/15/1999. A portion of

the disclosure of this patent document contains material that is subject to

copyright protection. The copyright owner has no objection to the facsimile

reproduction by anyone of the patent document or the patent disclosure, as it

appears in the Patent and Trademark Office patent files or records, but otherwise

reserves all copyright fights whatsoever. The following notice shall apply to this

document: Copyright © 1999,Microsoft, Inc.

In claims: Please cancel claims 1, 3-5, 10, 12-14, 20-25, 27, 30-31, and 34-

38.

Please replace claims 15, 18, 26, 32 and 33 with amended claims

15, 18, 26, 32 and 33.

15.   (Currently Amended) A computerized system for processing a database

query directed to a multidimensional database comprising:

a processor and a computer-readable medium;

an operating environment executing on the processor from the computer-

readable medium;

an On Line Analytical Processing (OLAP) server executing within the

operating environment and maintaining the multidimensional database, wherein

the OLAP server processes the database query by determining a subset of the

database for each member of an input data set specified by the query;

including in the processing of the query any calculated members of the

database that are within at least one of subsets of the database, without the

query specifying any calculated members of the database;

the OLAP server generates an output data set to include any of the

calculated members of the database;

the OLAP server processes a query directive of a query extension that

directs calculated members to be excluded from an output of the query, resulting

in processing the query using non-calculated members specified by the input

data set; and

in a situation when the OLAP server processes said query directive of

exclusion, the OLAP server initializes an output data set to an empty set, copies

the non-calculated members of the input data set to the output data set, and processes the query using the output data set.

18. (Currently Amended) The computerized system of claim 15, wherein for each member of the input data set the OLAP server identifies, within a dimension of the database, each member's siblings, member's descendants and descendants of the siblings.

26. (Currently Amended) A computerized system for processing a database query directed to a multidimensional database comprising:

a processor and a computer-readable medium;

an operating environment executing on the processor from the computer-readable medium;

an On Line Analytical Processing (OLAP) server executing within the operating environment and maintaining the multidimensional database, wherein the OLAP server processes the database query by determining whether the query includes an extension directing the OLAP server to automatically exclude calculated members of an input data set; wherein processing the query includes generating an output data set based on the determination;

when a query directive of the query extension is identified that directs that calculated members be excluded from output of the query, processing the query using non-calculated members specified by the input data set; and

the OLAP server initializing an output data set to an empty set, copies the

non-calculated members of the input data set to the output data set, and

processes the query using the output data set.

32.   (Currently Amended) A computerized method for processing a

received query directed to a multidimensional database comprising:

parsing the received query to identify whether the query contains a query

extension that indicates specifically how calculated members is handled in

processing the query;

when a query directive of the query extension is identified that directs

calculated members be excluded from output of the query, processing the query

using non-calculated members specified by an input data set;

when the query directive of the query extension is identified that directs

that calculated members be included in the output of the query then performing

at least the steps of:

determining a subset of the database for each member of an input data

set specified by the query,

processing the query using any calculated members of the database that

is within at least one of subsets of the database, without the query specifying any

calculated members of the database;

wherein the processing the query includes generating an output data set based on the directive of the query extension; and the processing the query includes processing the query with an On Line Analytical Processing (OLAP) server.

33.   (Currently amended) A computerized method for processing a received query directed to a multidimensional database comprising:

parsing the received query to identify whether the query contains a query extension that indicates specifically how calculated members is handled in processing the query;

when a query directive of the query extension is identified that directs calculated members be excluded from an output of the query, processing the query using non-calculated members specified by an input data set;

when a query directive of the query extension is identified that directs calculated members be included in the output of the query then performing at least the steps of:

determining a subset of the database for each member of an input data set specified by the query,

processing the query using any calculated members of the database that is within at least one of subsets of the database, without the query specifying any calculated members of the database; and

the processing the query includes generating an output data set based on

the directive of the query extension; and

the determining a subset for each member includes identifying within a

dimension of the database each member's siblings, member's descendants and

descendants of the siblings.

Allowable Subject Matter

3.   Claims 15-19, 26, 28-29, 32 and 33 are allowed.

The prior art of record, alone or in combination, does not teach or fairly

suggest the combination of steps as recited in independent claim 15, wherein "

the OLAP server processes a query directive of a query extension that directs

calculated members to be excluded from an output of the query, resulting in

processing the query using non-calculated members specified by the input data

set; and in a situation when the OLAP server processes said query directive of

exclusion, the OLAP server initializes an output data set to an empty set, copies

the non-calculated members of the input data set to the output data set, and

processes the query using the output data set".

The prior art of record, alone or in combination, does not teach or fairly

suggest the combination of steps as recited in independent claim 26, wherein "

the OLAP server processes a database query by determining whether the query

includes an extension directing the OLAP server to automatically exclude

calculated members of an input data set; wherein processing the query includes

generating an output data set based on the determination; when a query directive

of the query extension is identified that directs that calculated members be excluded from output of the query, processing the query using non-calculated members specified by the input data set; and the OLAP server initializing an output data set to an empty set, copies the non-calculated members of the input data set to the output data set, and processes the query using the output data set".

The prior art of record, alone or in combination, does not teach or fairly suggest the combination of steps as recited in independent 32 "parsing a received query to identify whether the query contains a query extension that indicates specifically how calculated members should be handled in processing the when the query directive of the query extension is identified that directs that calculated members be included in the output of the query then performing at least the steps of: determining a subset of the database for each member of an input data set specified by the query, processing the query using any calculated members of the database that is within the at least one of the subsets of the database, without the query specifying any calculated members of the database; wherein the processing the query includes generating an output data set based on the directive of the query extension; and the processing the query includes processing the query with an OLAP server"; and

The prior art of record, alone or in combination, does not teach or fairly suggest the combination of steps as recited in independent claim 33, wherein " a query directive of the query extension is identified that directs that calculated

members be included in the output of the query then performing at least the steps of: determining a subset of the database for each member of an input data set specified by the query, processing the query using any calculated members of the database that is within the at least one of the subsets of the database, without the query specifying any calculated members of the database; the processing the query includes generating an output data set based on the directive of the query extension; and the determining a subset for each member includes identifying within a dimension of the database each member's siblings, member's descendants and descendants of the siblings".

The dependent claims, bring definite, further limiting, and fully enabled by the specification are also allowed.

Contact Information

4.   Any inquiry concerning this communication or earlier communications from
the examiner should be directed to Cam Y T. Truong whose telephone number is
(571) 272-4042. The examiner can normally be reached on Monday to Firday.

If attempts to reach the examiner by telephone are unsuccessful, the
examiner's supervisor, John Breene can be reached on (571) 272-4107. The fax
phone number for the organization where this application or proceeding is
assigned is 571-273-8300.

Information regarding the status of an application may be obtained from
the Patent Application Information Retrieval (PAIR) system. Status information
for published applications may be obtained from either Private PAIR or Public
PAIR. Status information for unpublished applications is available through
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direct.uspto.gov. Should you have questions on access to the Private PAIR
system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-
free).

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